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DOCUMENT-IDENTIFIER: US 6187008 B1
TITLE: Device for temporarily fixing bones

ABPL:

An implant has a threaded end for screwing into a bone on one side of a joint and an extending resorbable polymer shaft for crossing the joint. The resorbable shaft is fixed in a bone on the opposite side of the joint. The present invention avoids joint stiffness by allowing slight movement of the bones relative to one another initially while the soft tissues heal. As the shaft resorbs it allows progressively more motion in the joint so that the articular surfaces are not degraded from lack of motion. Eventually, the shaft is completely resorbed thus requiring no removal operation. The implant of the present invention also finds application in bridging a bone fracture to allow progressive load shifting to the bone during healing.

BSPR:

The present invention relates to a device for temporarily maintaining the alignment between adjacent body tissues or tissue fragments. More particularly, the present invention relates to a device having a resorbable portion for bridging a bone joint or fracture.

BSPR:

The present invention avoids these complications by providing an implant having a threaded end for screwing into a bone on one side of the joint and an extending resorbable polymer shaft for crossing the joint. The resorbable shaft is fixed in a bone on the opposite side of the joint. The present invention avoids joint stiffness by allowing slight movement of the bones relative to one another initially while the soft tissues heal. As the shaft resorbs it allows progressively more motion in the joint so that the articular surfaces are not degraded from lack of motion. Eventually, the shaft is completely resorbed thus requiring no removal operation. The implant of the present invention also finds application in bridging a bone fracture to allow progressive load shifting to the bone during healing.

DRPR:

FIG. 1 is a partial cross sectional view of the scapholunate joint immobilized by an implant according to the present invention.

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be constructed from fragments of any of these proteins, or designed de novo from the generic sequence. These probes then can be used to screen different

genomic and cDNA libraries to identify additional osteogenic proteins useful in the prosthetic devices of this invention.

DEPR:

A device comprising osteogenic protein-treated matrices, including lyophilized allografts or xenografts as disclosed herein can lead to the formation of a new, mechanically, structurally and functionally viable replacement tissue, and to replacement body parts comprising plural distinct tissues, populated by the host cells, and without any of the limitations of prosthetic materials.

CLPV:

providing to said defect in a mammal a device which serves as a template comprising an exogenous osteogenic protein disposed on the surface of a biocompatible, bioresorbable matrix, said matrix comprising plural distinct tissues derived from a proximal or distal hemi-joint articular cartilage, said tissues defining a structure which allows the attachment of infiltrating cells thereby to permit regeneration of said articular cartilage in a skeletal joint which is long term mechanically and functionally viable.

CLPV:

providing to said defect a device which serves as a template comprising exogenous osteogenic protein disposed on the surface of a biocompatible, bioresorbable matrix, said matrix comprising plural distinct tissues derived from a proximal or distal hemi-joint including at least one non-mineralized tissue corresponding in kind to said tissue to be replaced, said matrix defining a unitary structure which allows the attachment of infiltrating cells thereby to permit regeneration of said non-mineralized tissue in a skeletal joint which is long term mechanically and functionally viable.

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